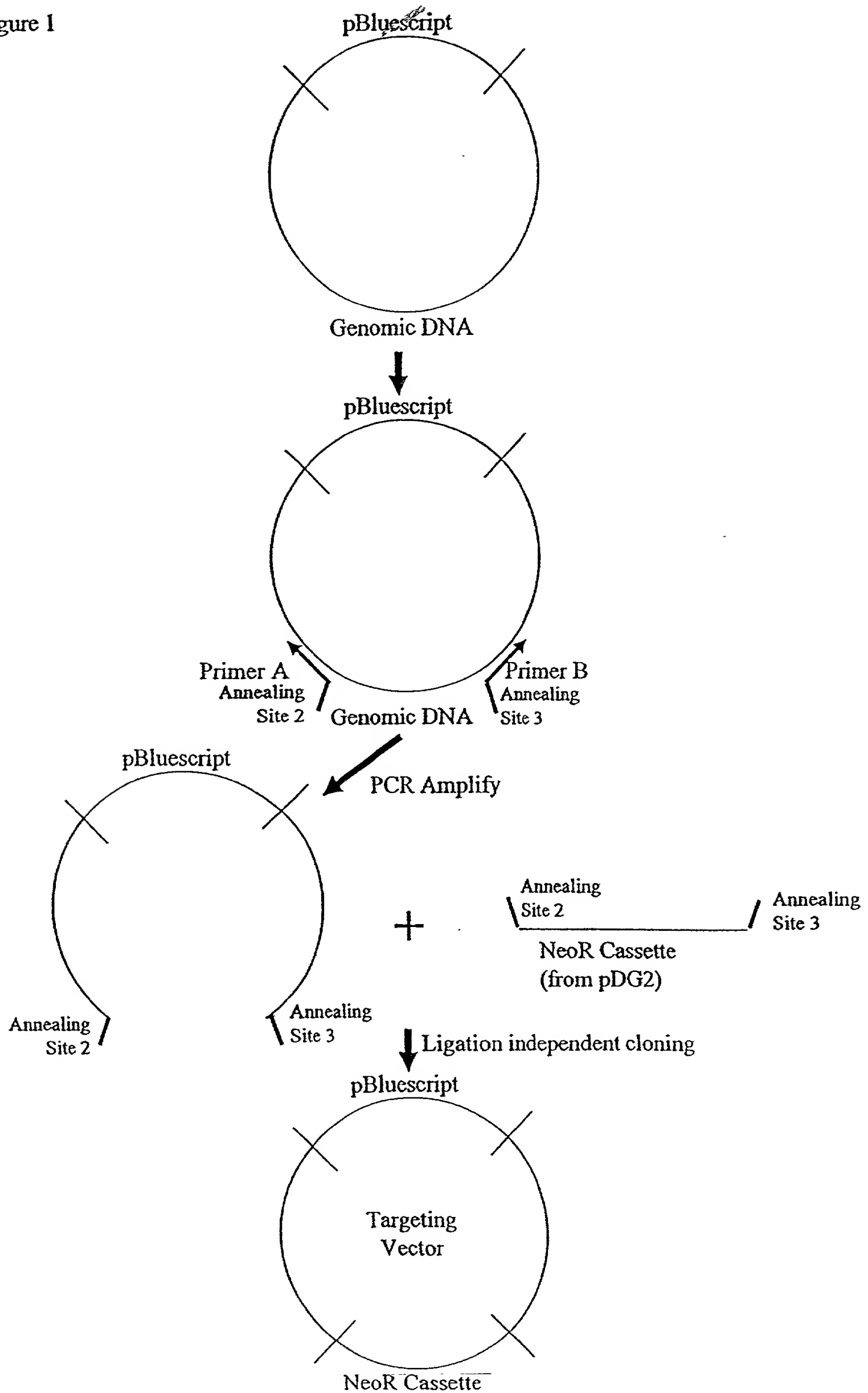


Figure 1



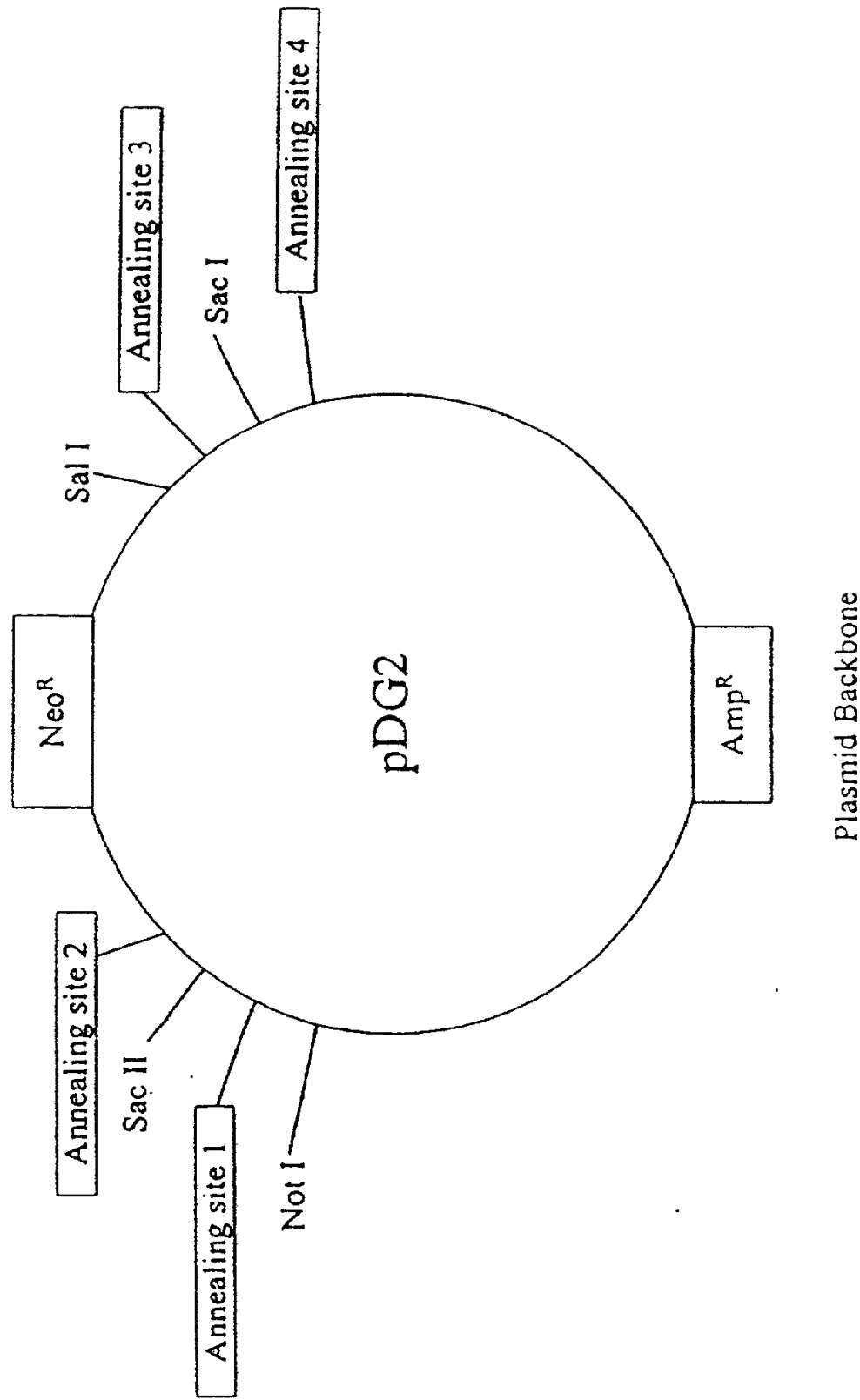


FIGURE 2A

031636-0360

FIGURE 2B

pDG2:  
GTAACTACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTCTAAATACATTCAAATA  
TGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTT  
CGTGTGCGCCCTTATTCCTTTTTCGGGCATTTTGCCTTCTGTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGA  
TGCTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCC  
CCGAAGAACGTTCTCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTGACGCCGGGCAA  
GAGCAACTCGGTGCGCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGA  
TGGCATGACAGTAAGAGAATTATGCAGTGTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGACAACGA  
TCGGAGGACCGAAGGAGCTAACCCTTTTTCGACAAACATGGGGGATCATGTAACCTGCTTGTGTTGGGAACCGGAG  
CTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACCTATTAAC  
TGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGC  
GCTCGGCCCTTCCGGCTGGCTGTTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCA  
CTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAG  
ACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCTGTCAGACCAAGTTTACTCATATATACTTTAGATTG  
ATTTACCCCGGTTGATAATCAGAAAAGCCCCAAAAACAGGAAGATTGTATAAGCAAATATTTAAATTGTAAACGTTAATA  
TTTTGTTAAATTTCGCTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTAT  
AAATCAAAAGAATAGCCGAGATAGGGTTGAGTGTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAGAAGCGTGGACTC  
CAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCAAATCAAGTTTTTGGGGT  
CGAGGTGCCGTAAAGCACTAAATCGGAACCCCTAAAGGGAGCCCCCGATTTAGAGCTTGACGGGGAAAGCGAACGTGGCGA  
GAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGTAGGGCGCTGGCAAGTGTAGCGGTACGCTGCGCGTAACCAACACA  
CCCGCCGCGCTTAATGCGCCGCTACAGGGCGCGTAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAA  
TCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTT  
CTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACCCACCGCTACCAGCGGTGGTTTTGTTTGCCGGATCAAGAGCTACCAAC  
TCTTTTTCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGATACCAATACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACC  
ACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAG  
TCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTGGGCTGAACGGGGGGTTCGTGCAC  
ACAGCCCAGCTTGGAGCGAACGACCTACACCGAAGTACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCG  
AAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGACGGGTGGAAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAAC  
GCCTGGTATCTTTATAGTCTGTGCGGGTTTCGCCACCTCTGACTTGAGCGTGCATTTTTGTGATGCTCGTCAGGGGGGCG  
GAGCCTATGGAAAAACGCCAGCAACGCGGCTTTTTACGGTTCTTGGCCTTTTGCTGGCCTTTTGCTCACATGTAATGTG  
AGTTAGCTCACTCATTAGGCACCCAGGCTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATA  
ACAATTTACACAGGAAACAGCTATGACCATGATTACGCCAAGCTACGTAATACGACTCACTAGGCGGCCGCTTTAAAC  
AATGTGCTCCTCTTTGGCTTGCTTCCGCGGGCCAGCCAGACAAGAACCAGTTGACGTCAAGCTTCCCGGGACGCGTGCT  
AGCGGCGCGCGAATTCCTGCAGGATTCCAGGGCCCCCTGCAGGTCAATTCTACCGGGTAGGGGAGGCGCTTTTCCCAAGG  
CAGTCTGGAGCATGCGCTTTAGCAGCCCCGCTGGCACTTGGCGCTACACAAGTGGCCTCTGGCCTCGCACACATTCCACA  
TCCACCGGTAGCGCAACCGGCTCCGTTCTTGGTGGCCCCCTTCGCGCCACCTTCTACTCCTCCCTAGTCAGGAAGTTC  
CCCCCGCCCCGCGAGCTCGCGTCTGTCAGGACGTGACAAATGGAAGTAGCAGTCTCACTAGTCTCGTGCAGATGGACAG  
CACCGCTGAGCAATGGAAGCGGGTAGGCCTTTGGGGCAGCGGCCAATAGCAGCTTTGCTCCTTCGCTTTCTGGGCTCAGA  
GGCTGGGAAGGGGTGGGTCCGGGGGCGGGCTCAGGGGCGGGCTCAGGGGCGGGCGGGCGGAAGGTCTCCCGAGGCCC  
GGCATTCTCGCACGCTTCAAAGCGCACGTCTGCCGCGCTGTTCTCCTCTTCTCATCTCCGGGCTTTTCGACCTGCAGC  
CAATATGGGATCGGCCATTGAACAAGATGGATTGCACGAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCCGGCTATG  
ACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCGGTGTTCCGGCTGTGAGCGCAGGGGCGCCCGGTTCTTTTGTG  
AAGACCGACCTGTCCGGTGCCCTGAATGAACTGCAGGACGAGGACGCGCGGTATCGTGGCTGGCCACGACGGGCGTTCC  
TTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCC  
TGTCTCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCT  
ACCTGCCCATTGACCAACGAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGCTTGTGTCATCAGGA  
TGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAGTGTGCGCAGGCTCAAGGCGCGCATGCCCGACGGCGATG  
ATCTCGTCTGACCCATGGCGATGCTGCTTGGCGAATATCATGGTGGAAATGGCCGCTTTTCTGGATTCTCGACTGT  
GGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATG  
GGCTGACCGCTTCTCGTGCTTTACGGTATCGCCGCTCCCGATTGCGAGCGCATCGCCTTCTATCGCCTTCTTGACGAGT  
TCTTCTGAGGGGATCGATCCGTCTGTAAAGTCTGCAGAAATTGATGATCTATTAACAATAAAGATGTCCACTAAAATGG  
AAGTTTTTCTGTCTACTTTGTAAAGAGGGTGAGAACAGAGTACCTACATTTTGAATGGAAGGATTGGAGCTACGGGG  
GTGGGGGTGGGTGGGATTAGATAAATGCCTGCTCTTACTGAAGGCTCTTACTATTGCTTTATGATAATGTTTCATAG  
TTGGATATCATAATTTAAACAAGCAAAACCAATTAAGGGCCAGCTCATTCTCCCACTCATGATCTATAGATCTATAGA  
TCTCTCGTGGGATCATTGTTTTCTCTTGATTCCCACTTTGTGGTTCTAAGTACTGTGGTTTCCAAATGTGTGAGTTTCA  
TAGCCTGAAGAACGAGATCAGCAGCCTCTGTTCCACATACACTTCACTCTCAGTATTGTTTTGCCAAGTTCTAATTCAT  
CAGAAGCTGACTCTAGATCTGGATCCGGCCAGCTAGGCCGTGACCTCGAGTGATCAGGTACCAAGGTCTCTGCTCTGTG  
TCCGTTGAGCTCGACGACACAGGACACGCAAAATTAATTAAGGCCGGCCCGTACCCTCTAGTCAAGGCCTTAAGTGAGTGC  
TATTACGGACTGGCCGTCGTTTTACAACGTGCTGACTGGGAAACCCCTGGCGTTACCCAACCTAATCGCCTTGCAGCACA  
TCCCCCTTTCCGACGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCG  
AATGGCGCTTCGCTTGGTAATAAAGCCCGCTTCGGCGGGCTTTTTTT

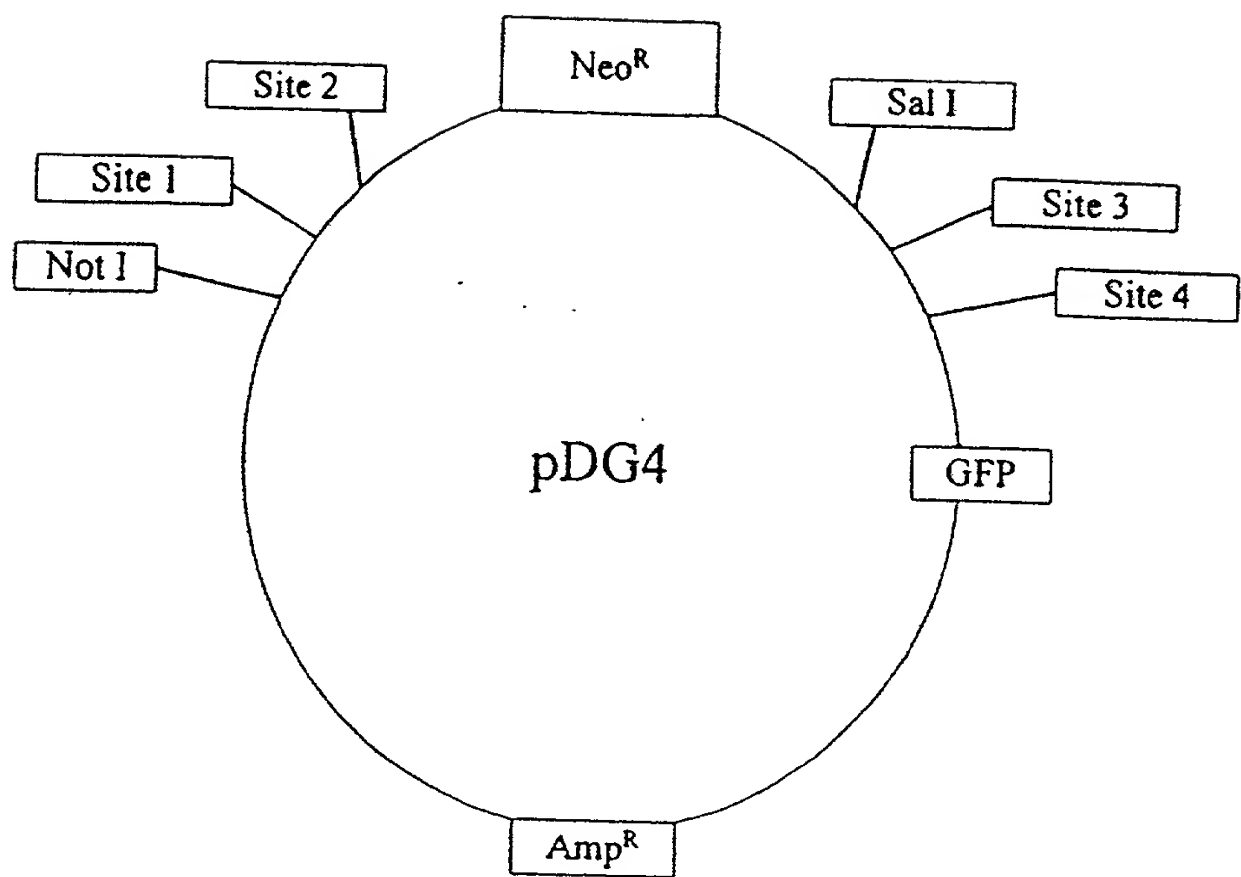


FIGURE 3A

FIGURE 3B

pDG4:

GTTTAATAGTAATCAATTACGGGGTCATTAGTTTCATAGCCCATATATGGAGTTCGCGTTACATAACTTACGGTAAATGG  
 CCCGCTGGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGA  
 CTTTCCAATGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCCTTGGCAGTACATCAAGTGTATCATATGCCAAGT  
 ACGCCCCCTATTGACGTCAATGACGGAATGGCCCGCTGGCATTAAAGCCAGTACATGACCTTATGGGACTTTCCTAC  
 TTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGATAGC  
 GGTTTGACTCACGGGGATTTCCAAGTCTCCACCCATTGACGTCAATGGGAGTTTGTGTTGGCACCAAAATCAACGGGAC  
 TTTCCAAAATGTGTAACAACTCCGCCCCATTGACGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATAAAGCAG  
 AGCTGGTTTAGTGAAACCGTCAGATCCGCTAGCGCTACCGGTGCGCACCATGGTGAGCAAGGGCGAGGAGCTGTTACCGG  
 GGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTGAGCGTGTCCGGCGAGGGCGAGGGCGATG  
 CCACCTACGGCAAGCTGACCTGAAGTTTCATCTGCACCACCGGCAAGCTGCCGTGCCCTGGCCACCCCTCGTGACCACC  
 CTGACCTACGGCGTGAGTGCTTCAGCCGCTACCCCGACCATGAAGCAGCAGACTTCTTCAAGTCCGCCATGCCCGA  
 AGGCTACGTCCAGGAGCGCACCATTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTGAGGGCG  
 ACACCTGGTGAAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTAC  
 AACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAAGTTCAAGATCCGCCACAA  
 CATCGAGGACGGCAGCGTGAGCTCGCCGACCACTACCAGCAGAACACCCCATCGGCGACGGCCCCGTGCTGCTGCCCCG  
 ACAACCACTACCTGAGGACCCAGTCCGCCCTGAGCAAGACCCCAACGAGAAGCGCGATCACATGGTCTGCTGGAGTTC  
 GTGACCGCCGCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTCCGGACTCAGATCCACCGGATCTAGATAACTGAT  
 CATAATCAGCCATACCACATTTGTAGAGTTTTACTTGCTTTAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATA  
 AAATGAATGCAATTGTTGTTGTTAACTTGTTTATTGCGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTT  
 ACAATAAAGCATTTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTAACGCGAACTACGTCA  
 GGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCAT  
 GAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCACATTTCCGTGTGCGCCCTTA  
 TTCCCTTTTTTGCGGCATTTTGCCTTCTGTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAG  
 TTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTGCCCCGAAGAACGTTT  
 TCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTGACGCGGGCAAGAGCAACTCGGTC  
 GCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTA  
 AGAGAATTATGAGTGCTGCCATAACCATGAGTGATAAAGTGGCGGCAACTTACTTCTGACAACGATCGGAGGACCGAA  
 GGAGCTAACCGCTTTTTTGCAACATGGGGGATCATGTAAGTGGCGCTTGTATCGTTGGGAACCGGAGCTGAATGAAGCCA  
 TACCAAACGACGAGCGTGACACACGATGCCTGTAGCAATGGCAACAACGTTGCGCAAACTATTAAGTGGCGAACTACTT  
 ACTCTAGCTTCCCGGCAACAATTAAGACTGGATGGAGGCGGATAAAGTTGACGAGCACTTCTGCGCTCGGCCCTTCC  
 GGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATG  
 GTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAG  
 ATAGGTGCCTCACTGATTAAGCATTGGTAAGTGTGACACCAAGTTTACTCATATATACTTTAGATTGATTTACCCCGGTT  
 GATAATCAGAAAAGCCCCAAAAACAGGAAGATTGTATAAGCAAAATATTTAAATTGTAAACGTTAATAATTTGTTAAAATT  
 CGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAAT  
 AGCCCGAGATAGGGTTGAGTGTTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAGAAGCTGGACTCCAACGTCAAAGGG  
 CGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCAAATCAAGTTTTTTGGGGTCGAGGTGCCGTAA  
 AGCACTAAATCGGAACCCCTAAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCGAACGTGGCGAGAAAGGAAGGGAA  
 GAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTACGCTGCGGTAACCAACACCCCGCGCGCTTA  
 ATGCGCCGCTACAGGGCGCGTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGA  
 GTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTCTGCGCGTAATCT  
 GGTGCTTGCAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCGGATCAAGAGCTACCAACTCTTTTTCCGAAG  
 GTAAGTGGCTTCAGCAGAGCGCAGATACCAAACTACTGTTCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTC  
 TGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACAGTGGCTGCTGCCAGTGGCGATAAGTGTGTCTTACCG  
 GGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGTCCGGCTGAACGGGGGGTTCGTGCACACAGCCAGCTTG  
 GAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCGAAGGGAGAAAGGC  
 GGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGAAACGCTGATCTTT  
 ATAGTCCTGTGCGGTTTTGCGCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAA  
 AACGCCAGCAACGCGGCTTTTTACGGTTCCTGGCCTTTTGTGCTGCTCATATGTAATGTGAGTTAGCTCACTC  
 ATTAGGCACCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACACA  
 GGAAACAGCTATGACCATGATTACGCCAAGCTACGTAATACGACTCACTAGGCGGCCGCTTTAAACAATGTGCTCCTCT  
 TTGGCTTGCTTCCGCGGGCAAGCCAGACAAGAACCAGTTGACGTCAAGCTTCCCGGGACGCGTGCTAGCGGCGCGCCGA  
 ATTCCTGCAGGATTCGAGGGCCCCCTGAGGTCAATTCTACCGGTAGGGGAGGCGCTTTTCCAAGGCAGTCTGGAGCAT  
 GCGCTTTAGCAGCCCCGCTGGCACTTGGCGCTACACAAGTGGCCTCTGGCCTCGCACACATTCCACATCCACCGGTAGCG  
 CCAACCGGCTCCGTTCTTTGGTGCCCTTTCGCGCCACCTTCTACTCTCCCTAGTCAGGAAGTTCCCCCCCCGCCCCGC  
 AGCTCGCGTCGTGACGACGTGACAAATGGAAGTAGCAGTCTCACTAGTCTCGTGAGATGGACAGCACCCTGAGCAA  
 TGGAAGCGGGTAGGCCTTTGGGGCAGCGGCCAATAGCAGCTTTGCTCCTTCGCTTTCTGGGCTCAGAGGCTGGGAAGGGG  
 TGGGTCCGGGGCGGGCTCAGGGGCGGGCTCAGGGGCGGGCGGGCGGAAGTCTCCCGAGGCCCGGCTTCTCGCAC  
 GCTTCAAAAGCGCACGTCTGCCGCGCTGTTCTCCTCTTCTCATCTCCGGGCTTTTCGACCTGCAGCCAATATGGGATCG  
 GCCATTGAACAAGATGGATTGCACGCGAGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCCGCTATGACTGGGCACAACA  
 GACAATCGGCTGCTCTGATGCCGCGGTGTTCCGGCTGTGAGCGCAGGGGCGGCTTCTTTTGTCAAGACCGACCTGT  
 CCGGTGCCCTGAATGAACTGCAGGACGAGGACGCGCGGCTATCGTGGTGGCCACGACGGGCGTTCTTTGCGCAGCTGTG  
 CTCGACGTTGTCACTGAAGCGGGAAGGACTGGCTGCTATTGGGCGAAGTGCCGGGCGAGGATCTCCTGTCTCATCTCACT

05015029-032001

TGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTG  
ACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAA  
GAGCATCAGGGGCTCGCGCCAGCCGAACTGTTGCCAGGCTCAAGGCGCGCATGCCCGACGGCGATGATCTCGTCGTGAC  
CCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCATCGACTGTGGCCGGCTGGGTG  
TGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGCGGCGAATGGGCTGACCGCTTC  
CTCGTGCTTTACGGTATCGCCGCTCCCGATTGCGAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGGGGA  
TCGATCCGTCCTGTAAGTCTGCAGAAATTGATGATCTATTAAACAATAAAGATGTCCACTAAAATGGAAGTTTTCTGT  
CATACTTTGTTAAGAAGGGTGAGAACAGAGTACCTACATTTTGAATGGAAGGATTGGAGCTACGGGGGTGGGGTGGGGT  
GGGATTAGATAAATGCCTGCTCTTTACTGAAGGCTCTTTACTATTGCTTTATGATAATGTTTCATAGTTGGATATCATAA  
TTTAAACAAGCAAACCAAATTAAGGGCCAGCTCATTCTCCCACTCATGATCTATAGATCTATAGATCTCTCGTGGGAT  
CATTGTTTTTCTCTTGATTCCCACTTTGTGGTTCTAAGTACTGTGGTTTCCAAATGTGTGAGTTTCATAGCCTGAAGAAC  
GAGATCAGCAGCCTCTGTTCCACATACACTTCATTCTCAGTATTGTTTTGCCAAGTTCTAATTCCATCAGAAGCTGACTC  
TAGATCTGGATCCGGCCAGCTAGGCCGTCGACCTCGAGTGATCAGGTACCAAGGTCCTCGCTCTGTGTCCGTTGAGCTCG  
ACGACACAGGACACGCAAATTAATTAAGGCCGGCCCGTACCCTCTAGTCAAGGCCTTAAGTGAGTCGTATTACGGAATGG  
CCGTCGTTTTACAACGTCGTGACTGGGAAAACCTGGCGTTACCCAACCTTAATCGCCTTGACGACATCCCCCTTTCGCC  
AGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCTTCGC  
TTGGTAATAAAGCCCGCTTCGGCGGGCTTTTTTTT

FIGURE 3B (Continued)

09314839-03P01

Annealing site	Sequence	Sequence after digestion
1	5' tgtgctcctctttggcttgcttccaa... 3' 3' acacgaggagaaaccgaacgaagggtt... 5'	5' tgtgctcctctttggcttgcttccaa... 3' 3' tt... 5'
2	5' ctgggttcttgtcttggttggttggcccaa... 3' 3' gaccaagaacagaccgaaccgggtt... 5'	5' ctgggttcttgtcttggttggttggcccaa... 3' 3' tt... 5'
3	5' ggtcctcgctctgtgtccggttgaa... 3' 3' ccaggagcgagacacagggcaactt... 5'	5' ggtcctcgctctgtgtccggttgaa... 3' 3' tt... 5'
4	5' ttctgctgttcctgtgtcgtcgaa... 3' 3' aaacgcacaggacacagcagcgtt... 5'	5' ttctgctgttcctgtgtcgtcgaa... 3' 3' tt... 5'

FIGURE 4

Annealing site	Sequence	Sequence after digestion
1	5' AAtgtgctcctcttggcttgcttCCGC 3' 3' Ttacagaggagaaacccaaggaagg 5'	5' AA 3' 3' Ttacagaggagaaacccaaggaagg 5'
2	5' AActgggttcttgtctggcttgCCCCGC 3' 3' Ttgaccaagaacagaccgaaccggg 5'	5' AA 3' 3' Ttgaccaagaacagaccgaaccggg 5'
3	5' AAggtcctcgctctgtgtccgttGAGCT 3' 3' Ttccaggagcgagacacagggaac 5'	5' AA 3' 3' Ttccaggagcgagacacagggaac 5'
4	5' AAtttgcgtgtcctgtgtcgtcGAGCT 3' 3' Ttaacgcacaggacacagcagc 5'	5' AA 3' 3' Ttaacgcacaggacacagcagc 5'

FIGURE 5



FIGURE 6

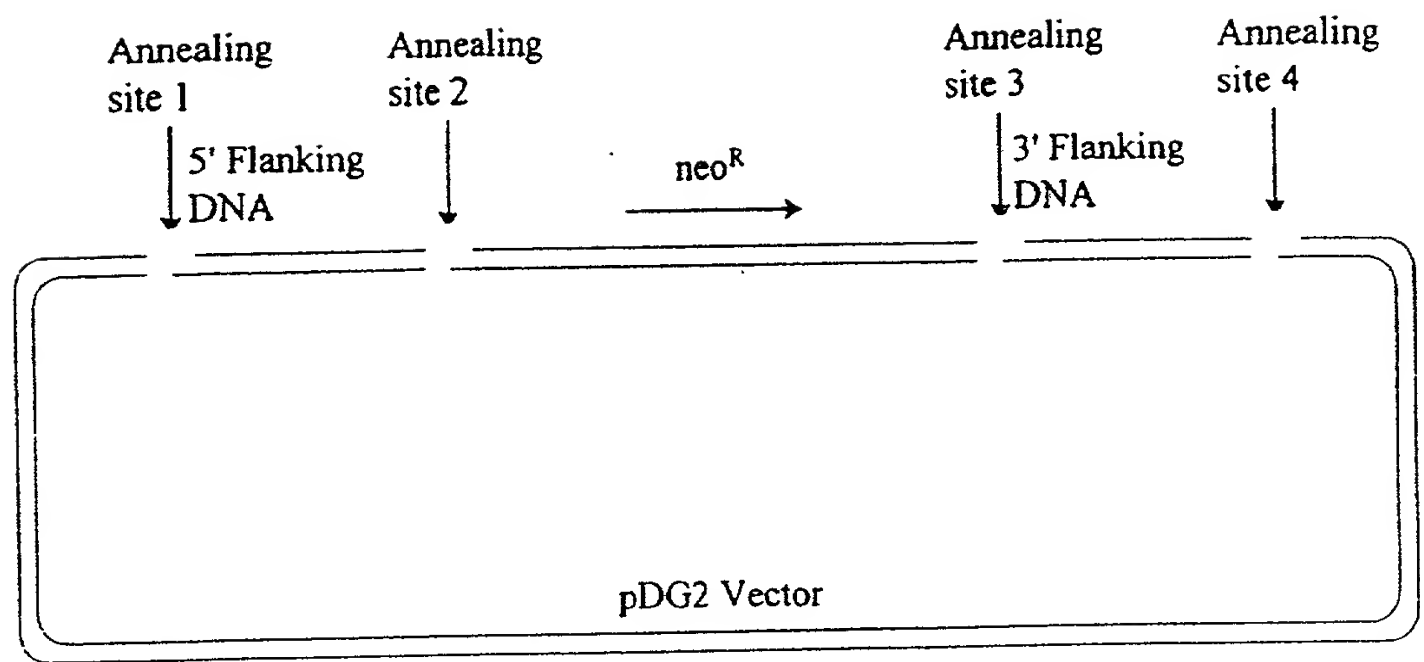
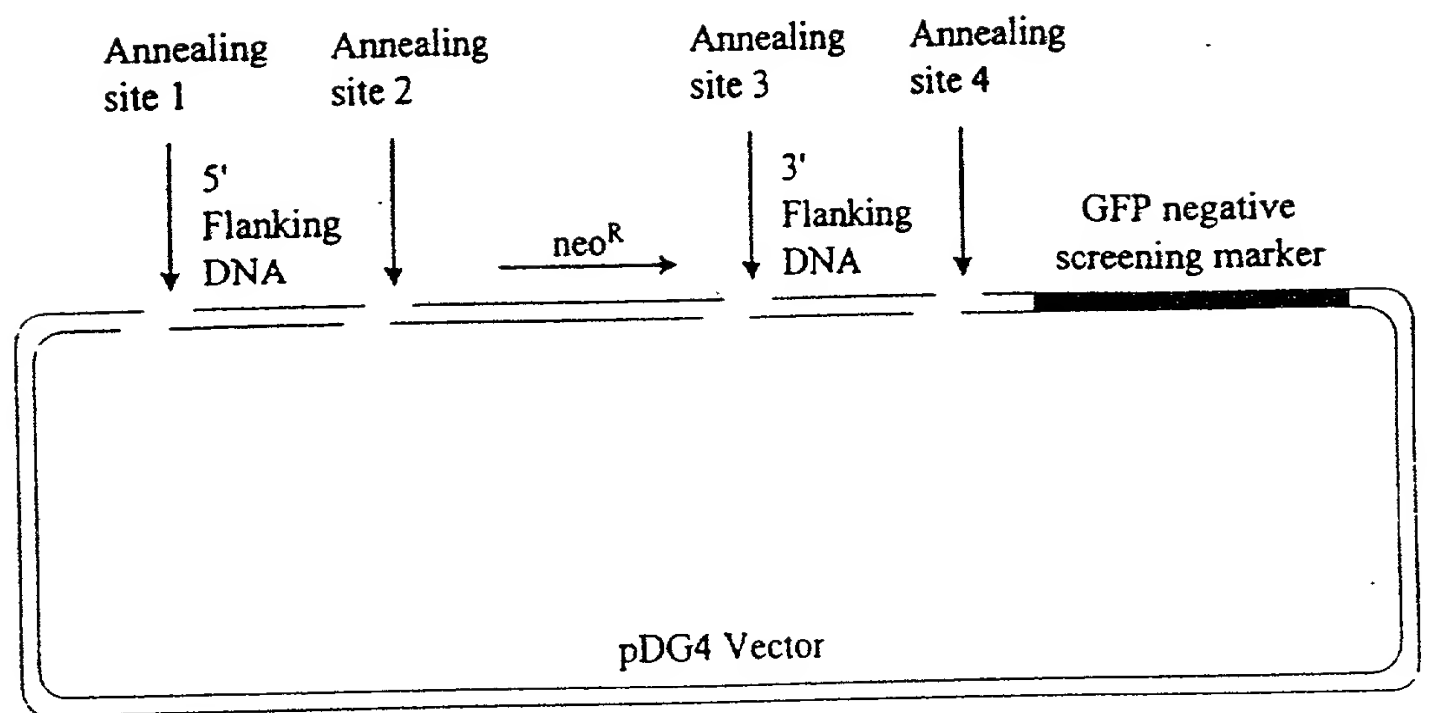


FIGURE 7



0591595.03201

GAATTCCAACCTCAGCTTGACGTGGGGCCTATTGAACTCAATTTGCTTGGAAACTGCCCAGGAAAGGCTG  
AGAGCTGAACCCCTCCTTGGGACAGCTAAAGGGAGTCTTCACCATGGGTGAGGTGACAGCAGAGGAGGT  
AGAAAAGTTCTTGATTCAAATATTGGCTTTGCCAAACAATACTATAACCTTCACTACCGGGGGAAGGTC  
ATCTCAGACCTCCTCGGGGCCAAGGAGGCAGCTGTGGAATTCAGCAACTACCACGATGTGAACAGCGTAG  
AGGAGAGTGAGATCATCTTTGACCTCCTGCGGGACGTTTACAGGAGAACTTACAGGCTGAGAAATGCACATT  
CAATGTCATGAAGAAGCTCTGCTTCTCCTGCGGGCTGACCGAGTGAGCCTGTTTATGTACAGGACCCGC  
AACGGCATCGCCGAGCTGGCCACTAGGCTCTTCAATGTCCACAAGGATGCTGTGCTAGAGGACTGCTTGG  
TGATGCCCCGACTCCGAGATTGTCTTCCCTCTGGACATGGGTGTCTGTTGGCCACGTCGCACACTCCAAAA  
GATTGCCAATGTCCCCAACACAGAAGAGGATGAGCATTCTGTGACTTCGTGGACAATCTCACAGAATAT  
CAGACCAAGAATCCTGGCTTCCCCATCATGAATGGGAAGGATGTGGTAGCCATAATCATGGCTGTGA  
ATAAAATAGATGAACCCCACTTACCAAGAGAGATGAAGAGATTCTTCTCAAGTACCTCAACTTTGTGAA  
CCTGATCATGAAGGTATTCCACCTGAGCTACCTGCACAACCTGTGAGACTCGTCGCGGCCAGATATTGCTG  
TGGTCTGGGAGCAAGGTCTTTGAGGAGCTCACGGATATAGAGAGGCAGTTCCACAAGGCCCTGTACACGG  
TCCGGGCTTTCTCAACTGTGACAGATACTCCGTAGGACTCTTAGACATGACCAAACAGAAGGAATTTTT  
TGATGTGTGGCCAGTTCTGATGGGCGAGGCTCCAGCTTACTCTGGTCCCAGGACTCCAGACGGAAGGGAA  
ATTAACCTTCTACAAGGTCATTGACTACATCTTGCACGGCAAAGAAGACATCAAAGTCATCCCGAACCCAC  
CCGCTGACCACTGGGCTCTAGTGAGTGGTCTACCCCTTACGTGGCTCAAAATGGTCTGATCTGCAATAT  
AATGAATGCGCCTGCAGAGGACTTTTTTGAATTCAGAAAGAGCCTCTGGATGAGTCTGGGTGGATGATT  
AAAAATGTACTCTCCATGCCATCGTCAACAAGAAGGAAGAGATCGTCGGCGTGGCCACATTTTACAACC  
GCAAAGATGGGAAGCCCTTCGACGATATGGACGAGACCCTCATGGAGTCTTTGACTCAGTTTCTGGGATG  
GTCAGTCTTAAACCCTGACACCTACGAGTCCATGAACAAGCTCGAGAACAGGAAGGATATCTTCCAGGAC  
ATCGTGAAATATCACGTGAAGTGTGATAACGAAGAAATCCAGAAGATCTTGAAAACCAAGAGAGGTGTACG  
GCAAAGAGCCGTGGGAATGCGAGGAGGAGGAGCTGGCTGAGATCCTGCAAAGAGAACTTCCAGACGCGGA  
GTCATACGAAATCAACAAGTTCCACTTCAGCGACCTGCCACTCACGGAGCTGGAGCTGGTGAAGTGCGGC  
ATCCAGATGTACTACGAGCTCAGAGTGTGGGACAAGTTCCACATCCCGCAAGAGGCCCTGGTGGCTTCA  
TGTATTCTGCTAAGCAAAGGCTACCGGAGAATCACTTACCACAACCTGGCGGCATGGCTTCAACGTGGGGCA  
GACCATGTTCTCCTTGCTGGTGACAGGAAAGCTGAAACGGTACTTCACTGATCTAGAGGCCTTGGCCATG  
GTCAGTCTGCCTTCTGTGATGACATCGACCACAGAGGCACGAACAACCTCTACCAGATGAAATCACAGA  
ACCCCTGGCCAAGCTCCATGGGTCTCCATCTTGGAAAGGCATCATTTGGAGTTTGGCAAAACACTCCT  
GAGAGATGAGAGCCTGAATATCTTCCAGAACCTGAATCGCCGGCAGCATGAGCACGCGATCCACATGATG  
GACATCGCGATCATTGCCACAGACCTTGCCTTGTATTTCAAGAAAAGGACCATGTTCCAGAAGATTGTGG  
ATCAGTCAAAGACATATGAGAGTACCCAGGAGTGGACCCAGTACATGATGCTGGAGCAGACACGGAAGGA  
AATTGTGATGGCCATGATGATGACCGCCTGTGATCTCTCAGCCATCACCAAACCTGGGAGGTACAGAGC  
AAGGTGGCTCTGCTGGTGGCTGCTGAATTCTGGGAGCAAGGTGACCTGGAGCGCACAGTGCTGCAGCAGA  
ATCCCATTCCCATGATGGACAGAAACAAGGCGGATGAGCTCCCCAAGCTTCA  
AGTCGGCTTCATCGACTTTGTGTGCACTTTTGTCTATAAGGAGTTCTCCCGATTTTATGAGGAGATTACA  
CCCATGCTGGATGGGATCACTAACAACCGCAAGGAATGGAAGGCGCTGGCTGATGAGTACGAAGCCAAGA  
TGAAGGCCCTGGAGGAGGAGAAGCAGAAGCAGCAGGCAGCCAAGCAAGCTGCTTCCGGGAACCAGCCAGG  
AGGGAACCCACTCCAGGGTGCACCTGCATCTAAGTCTTGTGATCCAGTAGCTGACTGCACTGCAGCAG  
GGCACAGCCCTCAGGAAGGAGGAGGTACCCCTGGCACTGGACAGTTAAAGAACCAGGAGCTTGGAAAGTGG  
TGGCAAACACAGCAGGCATCTATATCATCAAATGGTCTTAGACATTGGTTCTGTTCTGTTCTGTTCTGTT  
CTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTTCTGTT  
CAGCTCTGGCTGGCCTGGAACCTCTCTATGTAGACTGGGCTGGCCTCAAACCTCACAGGCCTCCACCTGCCT  
CTGTGTCCTGAGTTCTGAGTTAATAAGCAAGCACCATCACACAGGGACTTAGAGATTGTGTTTAATTCTA  
AAAAGTCTATCGAGTCTAGCCTAATATTCTAGACTTCATATACTGACTTGATAATTTTTTGTCTTATAA  
TGCTTGTAATTTTATAAGCTTTTTTAAACTTAGTGTTTTATTATAAAAGTGTTTCGCTAATTTCCAAAAGT  
ACAGAATTATACGGAATTC (SEQ ID NO:19 )

Figure 8A

[illegible]

GGAGGTAGAAAAGTTCCTGGATTCAAATATTGGCTTTGCCAAACAGTACTATAACTTTCACTA  
CCGGGGGAAGGTCATCTCAGACCTCCTCGGGGCCAAGGAGGCAGCCGTGGACTTCAGCAA  
CTACCACGATGTGAACAGCGTAGAGGAGAGTGAGATCATCTTTGACCTCCTGCGGGACGTT  
CAGGAGAACTTACAGG (SEQ ID NO:20 )

TGTCGTGGGCCACGTCGCACACTCCAAAAAGATTGCCAATGTCCCCAACACAGAAGAGGTACG  
CTCTCCCCATAAGATGGATGTACGAATGCACTGTTCCCTGGGGTTCTGGAGTCCAAGCTGGCT  
GGGCTGTTGCTGGCCACCAAACCTGGGCTAGTCATAGCACGATACCACTCTCTATTATAAAAA  
ATACTTAGAA (SEQ ID NO: 21)

FIG. 8B